

# Stephen C. Van Hedger

Huron University College  
Department of Psychology  
London, ON Canada

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<https://haplab.ca>

## PROFESSIONAL EXPERIENCE

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<b>Assistant Professor</b> <i>Department of Psychology</i> <i>Huron University College</i>	2020 - Present
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<b>Member</b> <i>Brain and Mind Institute</i> <i>Western Institute for Neuroscience</i> <i>University of Western Ontario</i>	2020 - Present
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<b>Postdoctoral Fellow</b> <i>Brain and Mind Institute</i> <i>Department of Psychology</i> <i>University of Western Ontario</i> <i>Advisors: Ingrid S. Johnsrude, Laura J. Batterink</i>	2018 - 2020
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<b>Postdoctoral Scholar</b> <i>Chicago Center for Practical Wisdom</i> <i>Department of Psychology</i> <i>University of Chicago</i> <i>Advisors: Howard C. Nusbaum, Marc G. Berman</i>	2015 - 2018
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## EDUCATION

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<b>Ph.D., Psychology, University of Chicago</b> <i>Advisor: Howard C. Nusbaum</i>	2015
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<b>A.M., Psychology, University of Chicago</b> <i>Advisor: Howard C. Nusbaum</i>	2012
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<b>A.B., Music, University of Chicago</b> General and Departmental Honors Phi Beta Kappa Honor Society	2009
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## GRANT SUPPORT

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<b>Notre Dame Research (NDR) Grant</b> <i>University of Notre Dame</i> Project Title: The Bittersweet Spot: How Musical Emotions Affect the Understanding of Life Events Co-Investigator (PI: Dr. Berthold Hockner) \$100,000 USD	2023-2026
<b>SSHRC Institutional Grant (SIG)</b> <i>Huron University College</i> Project Title: Demystifying Perfect Pitch through Citizen Science \$6,400 CAD	2023 - 2024
<b>Huron Technology Support Fund</b> <i>Huron University College</i> Project Title: Developing a "Citizen Science" Website for Perfect Pitch \$2,312 CAD	2022 - 2023
<b>CIHR Project Grant</b> Project Title: The cognitive neuroscience of listening effort Co-Investigator (PIs: Dr. Bjorn Herrmann, Dr. Ingrid Johnsrude, Dr. Susan Scollie) \$742,050 CAD	2022 - 2027
<b>BrainsCAN Registered Report Fund</b> <i>University of Western Ontario</i> Project Title: Characterizing Listening Effort in the Understanding of Noisy Speech \$7,400 CAD	2021 - 2022
<b>SSHRC Institutional Grant (SIG)</b> <i>University of Western Ontario</i> Project Title: Auditory category learning, memory, and generalization Co-Investigator (PI: Ingrid Johnsrude) \$7,000 CAD	2020 - 2021
<b>Targeted Research Fund</b> <i>Huron University College</i> Project Title: Engagement with Nature and Well-Being in the Age of COVID-19 \$4,100 CAD	2020 - 2021
<b>Division of Social Sciences Research Grant</b> <i>University of Chicago</i> Project Title: Neural correlates of absolute pitch categorization \$11,800 USD	2014 - 2015
<b>Arts-Science Graduate Collaboration Grant</b> <i>University of Chicago</i> Project Title: The role of vibrotactile feedback in music performance \$1,500 USD	2010 - 2011

## FELLOWSHIPS AND AWARDS

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<b>BrainsCAN Tier I Postdoctoral Fellowship Award</b> <i>University of Western Ontario</i> \$70,000 CAD/year	2018 - 2020
<b>Western Cognitive Neuroscience Postdoctoral Fund</b> <i>University of Western Ontario</i> <i>Brain and Mind Institute</i> \$50,000 CAD/year	2018 - 2020
<b>John Dewey Prize Lectureship</b> <i>University of Chicago</i> <i>Department of Psychology</i> \$5,000 USD	2015
<b>Starkey Duncan Award for Excellence in Undergraduate Teaching</b> <i>University of Chicago</i> <i>Department of Psychology</i>	2014
<b>Norman H. Anderson Research Fellow</b> <i>University of Chicago</i> <i>Department of Psychology</i>	2011 - 2015
<b>Fulbright Program Finalist</b> <i>United States Department of State</i>	2009 - 2010

## PUBLICATIONS

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Google Scholar Metrics (as of December 2023)      Citations: 655    h-index: 15    i10-index: 23

### Peer-Reviewed Articles

- [1] Sweet, S., **Van Hedger, S.C.**, & Batterink, L.J. (2024). Of words and whistles: Statistical learning operates similarly for identical sounds perceived as speech and non-speech. *Cognition*, 242, 105649. <https://doi.org/10.1016/j.cognition.2023.105649>
- [2] **Van Hedger, S.C.**, Bongiovanni, N., & Khudhair, H. (2023). Some like it sharp: Song familiarity influences musical preference for absolute tuning. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. <https://doi.org/10.1037/aca0000636>
- [3] **Van Hedger, S. C.**, & Bongiovanni, N. (2023). Widespread but limited in context: Absolute tuning judgments are disrupted by relative pitch cues. *Music & Science*, 6, <https://doi.org/10.1177/20592043231208626>
- [4] Schertz, K.E., Kotabe, H.P., Meidenbauer, K.L., Layden, E.A., Zhen, J., Bowman, J.E., Lakhtakia, T., Lyu, M., Paraschos, O.A., Janey, E.A., Samtani, A.L., Stier, A.J., Gehrke, K., **Van Hedger, S.C.**, Vohs, K.D., & Berman, M.G. (2023). Nature's path to thinking about others and the surrounding environment. *Journal of Environmental Psychology*, 89, 102046. <https://doi.org/10.1016/j.jenvp.2023.102046>

- [5] **Van Hedger, S.C.**, Bongiovanni, N., Heald, S.L.M., & Nusbaum, H.C. (2023). Absolute pitch judgments of familiar melodies generalize across timbre and octave. *Memory & Cognition*, <https://doi.org/10.3758/s13421-023-01429-z>
- [6] Hull, K., Van Hedger, K., & **Van Hedger, S.C.** (2023). Absorption relates to individual differences in visual face pareidolia. *Current Psychology*, <https://doi.org/10.1007/s12144-023-04670-6>
- [7] Bongiovanni, N., Heald, S.L.M., Nusbaum, H.C., & **Van Hedger, S.C.** (2023). Generalizing across tonal context, timbre, and octave in rapid absolute pitch training. *Attention, Perception, & Psychophysics*, 85, 525-542. <https://doi.org/10.3758/s13414-023-02653-0>
- [8] Alexander, E., **Van Hedger, S.C.**, & Batterink, L.J. (2023). Learning words without trying: Daily second language podcasts support word-form learning in adults. *Psychonomic Bulletin & Review*, 30, 751-762. <https://doi.org/10.3758/s13423-022-02190-1>
- [9] Schertz, K.E., Bowman, J.E., Kotabe, H.P., Layden, E.A., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O.A., **Van Hedger, S.C.**, Rim, N.K., Vohs, K.D., & Berman, M.G. (2022). Environmental influences on affect and cognition: A study of natural and commercial semi-public spaces. *Journal of Environmental Psychology*, 101852, <https://doi.org/10.1016/j.jenvp.2022.101852>
- [10] Brancato, G., Van Hedger, K., Berman, M.G., & **Van Hedger, S.C.** (2022). Simulated nature walks improve psychological well-being along a natural to urban continuum. *Journal of Environmental Psychology*, 101779, <https://doi.org/10.1016/j.jenvp.2022.101779>
- [11] Dumas, T.M., Ellis, W.E., **Van Hedger, S.C.**, Litt, D.M., & MacDonald, M. (2022). Lockdown, bottoms up? Changes in adolescent substance use across the COVID-19 pandemic. *Addictive Behaviours*, 131, 107326. <https://doi.org/10.1016/j.addbeh.2022.107326>
- [12] Heald, S.L.M., **Van Hedger, S.C.**, Veillette, J., Reis, K., Snyder, J.S., & Nusbaum, H.C. (2022). Going beyond rote auditory learning: Neural patterns of generalized auditory learning. *Journal of Cognitive Neuroscience*, 34, [https://doi.org/10.1162/jocn\\_a\\_01805](https://doi.org/10.1162/jocn_a_01805)
- [13] **Van Hedger, S.C.**, Johnsrude, I.S., & Batterink, L.J. (2022). Musical instrument familiarity affects statistical learning of tone sequences. *Cognition*, 218, 104949. <https://doi.org/10.1016/j.cognition.2021.104949>
- [14] Reis, K.S., Heald, S.L.M., Veillette, J.P., **Van Hedger, S.C.**, & Nusbaum, H.C. (2021). Individual differences in human frequency-following response predict pitch labeling ability. *Scientific Reports*, 11, 14290, <https://doi.org/10.1038/s41598-021-93312-7>
- [15] **Van Hedger, S.C.**, Veillette, J.P., Heald, S.L.M., & Nusbaum, H.C. (2020). Revisiting continuous versus discrete models of human behavior: The case of absolute pitch. *PLoS One*, <https://doi.org/10.1371/journal.pone.0244308>
- [16] Uddin, S., Reis, K., **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2020). Cortical mechanisms of talker normalization in fluent sentences. *Brain & Language*, 201, 104722. <https://doi.org/10.1016/j.bandl.2019.104722>

- [17] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2019). Absolute pitch can be learned by some adults. *PLoS One*, <https://doi.org/10.1371/journal.pone.0223047>
- [18] Zhen, A., **Van Hedger, S.C.**, Heald, S.L.M., Goldin-Meadow, S., & Tian, X. (2019). Manual directional gestures facilitate cross-modal perceptual learning. *Cognition*, 187, 178-187. <https://doi.org/10.1016/j.cognition.2019.03.004>
- [19] **Van Hedger, S.C.**, Nusbaum, H.C., Clohisey, L., Jaeggi, S.M., Buschkuhl, M., & Berman, M.G. (2019). Of cricket chirps and car horns: The effect of nature sounds on cognitive performance. *Psychonomic Bulletin & Review*, 26, 522-530. <https://doi.org/10.3758/s13423-018-1539-1>
- [20] **Van Hedger, S.C.**, Nusbaum, H.C., Heald, S.L.M., Huang, A., Kotabe, H., & Berman, M.G. (2019). The aesthetic preference for nature sounds depends on sound object recognition. *Cognitive Science*, 43, e12734. <https://doi.org/10.1111/cogs.12734>
- [21] Stenfors, C., **Van Hedger, S.C.** ... Berman, M.G. (2019). Positive effects of nature on cognitive performance across multiple experiments: Test order but not affect modulates the cognitive effects. *Frontiers in Psychology*, 10:1413. <https://doi.org/10.3389/fpsyg.2019.01413>
- [22] **Van Hedger, S.C.**, & Nusbaum, H.C. (2018). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. *Acta Psychologica*, 191, 251-260. <https://doi.org/10.1016/j.actpsy.2018.10.007>
- [23] **Van Hedger, S.C.**, Heald, S.L.M., Uddin, S., & Nusbaum, H.C. (2018). A note by any other name: Intonation context rapidly influences absolute note judgments. *Journal of Experimental Psychology: Human Perception & Performance*, 44, 1268-1282. <https://doi.org/10.1037/xhp0000536>
- [24] Uddin, S., Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2018). Hearing sounds as words: Neural responses to environmental sounds in the context of fluent speech. *Brain & Language*, 179, 51-61. <https://doi.org/10.1016/j.bandl.2018.02.004>
- [25] Nusbaum, H.C., Uddin, S., **Van Hedger, S.C.**, & Heald, S.L.M. (2018). Consolidating skill learning through sleep. *Current Opinion in Behavioral Sciences*, 20, 174-182. <https://doi.org/10.1016/j.cobeha.2018.01.013>
- [26] Uddin, S., Heald, S.L.M., **Van Hedger, S.C.**, Klos, S., & Nusbaum, H.C. (2018). Understanding environmental sounds in sentence context. *Cognition*, 172, 134-143. <https://doi.org/10.1016/j.cognition.2017.12.009>
- [27] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2018). Long-term pitch memory for music recordings is related to auditory working memory precision. *The Quarterly Journal of Experimental Psychology*, 71, 879-891. <https://doi.org/10.1080/17470218.2017.1307427>
- [28] **Van Hedger, S.C.**, Heald, S.L.M., Huang, A., Rutstein, B., & Nusbaum, H.C. (2017). Telling in-tune from out-of-tune: Widespread evidence for implicit absolute intonation. *Psychonomic Bulletin & Review*, 24, 481-488. <https://doi.org/10.3758/s13423-016-1099-1>
- [29] Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2017). Perceptual plasticity for auditory object recognition. *Frontiers in Psychology*, 8, 781. <https://doi.org/10.3389/fpsyg.2017.00781>

- [30] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2016). What the [bleep]? Enhanced absolute pitch memory for a 1000 Hz sine tone. *Cognition*, 154, 139-150. <https://doi.org/10.1016/j.cognition.2016.06.001>
- [31] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2015). The effects of acoustic variability on absolute pitch categorization: Evidence of contextual tuning. *Journal of the Acoustical Society of America*, 138(1), 436-446. <https://doi.org/10.1121/1.4922952>
- [32] **Van Hedger, S.C.**, Heald, S.L.M., Koch, R., & Nusbaum, H.C. (2015). Auditory working memory predicts individual differences in absolute pitch learning. *Cognition*, 140, 95-110. <https://doi.org/10.1016/j.cognition.2015.03.012>
- [33] **Van Hedger, S.C.**, Palmer, C., Hogstrom, A., & Nusbaum, H.C. (2015). Sleep consolidation of musical competence. *Music Perception*, 33(2), 163-178. <https://doi.org/10.1525/mp.2015.33.2.163>
- [34] Heald, S.L.M., **Van Hedger, S.C.**, & Nusbaum, H.C. (2014). Auditory category knowledge in experts and novices. *Frontiers in Neuroscience*, 8, 260. <https://doi.org/10.3389/fnins.2014.00260>
- [35] **Hedger, S.C.**, Nusbaum, H.C., Lescop, O., Wallisch, P., & Hoeckner, B. (2013). Music can elicit a visual motion aftereffect. *Attention, Perception, & Psychophysics*, 75(5), 1039-1047. <https://doi.org/10.3758/s13414-013-0443-z>
- [36] **Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2013). Absolute pitch may not be so absolute. *Psychological Science*, 24(8), 1496-1502. <https://doi.org/10.1177/0956797612473310>
- [37] **Hedger, S. C.**, Nusbaum, H.C., & Hoeckner, B. (2013). Conveying movement in music and prosody. *PLoS One*, 8(10), e76744. <https://doi.org/10.1371/journal.pone.0076744>

### Preprints

- [1] Thomson, J. S. H., & **Van Hedger, S. C.** (2023). Effects of a brief online mindfulness intervention on cognition and affect in university students: A randomized longitudinal design. *PsyArXiv*, <https://doi.org/10.31234/osf.io/zwbhe>
- [2] Cormier, H., Tsang, C.D., & **Van Hedger, S.C.** (2023). The role of attention in inducing a musically induced visual motion aftereffect. *PsyArXiv*, <https://doi.org/10.31234/osf.io/vh9n6>
- [3] Bongiovanni, N., Chan, T.M.V., **Van Hedger, S.C.**, Findley, C., & Hoeckner, B. (2023). Pitch height and mode have asymmetrical effects on the perception of mixed emotions in seventh chords. *PsyArXiv*, <https://doi.org/10.31234/osf.io/jmq3w>
- [4] Mathiesen, S. L., **Van Hedger, S. C.**, Irsik, V. C., Bain, M., Johnsrude, I., & Herrmann, B. (2023). Exploring age differences in absorption and enjoyment during story listening. *PsyArXiv*, <https://doi.org/10.31234/osf.io/7g2r4>
- [5] **Van Hedger, S.C.**, Winspear, M., & Batterink, L.J. (2021). Talker variability facilitates the statistical learning of speech sounds. *PsyArXiv*, <https://doi.org/10.31234/osf.io/t8eyh>

### Book Chapters and Encyclopedia Entries

- [1] **Van Hedger, S.C., & Johnsrude, I.S.** (2022). Speech perception under adverse listening conditions. In A. Popper, A. Coffin (Eds.), *Springer Handbook of Auditory Research*. Springer, Cham. [https://doi.org/10.1007/978-3-030-81542-4\\_6](https://doi.org/10.1007/978-3-030-81542-4_6)
- [2] **Van Hedger, S.C., & Nusbaum, H.C.** (2018). Absolute pitch. In: J. Vonk, T. K. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer, Cham.
- [3] Heald, S.L.M., **Van Hedger, S.C., & Nusbaum, H.C.** (2017). Understanding sound: Auditory skill acquisition. *Psychology of Learning and Motivation*, 67, 53-93.

### TEACHING EXPERIENCE

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#### Current Courses, Huron University College

<b>PSYCHOL 1100E:</b> Method in General Psychology*	2020 - 2023
<b>PSYCHOL 2115A:</b> Introduction to Sensation and Perception	2020
<b>PSYCHOL 2130E:</b> Method in Sensation and Perception	2023
<b>PSYCHOL 2750E:</b> Theories and Methods of Cognitive Neuroscience	2021
<b>PSYCHOL 3131F**:</b> Music Cognition	2020, 2022, 2023
<b>PSYCHOL 3696G:</b> Dynamics of Mentorship in Psychology Research*	2023
<b>PSYCHOL 4880E:</b> Honors Thesis*	2020 - 2023

\* *Team-taught course*

\*\* *Also taught under PSYCHOL 3760F/G*

#### Previous Courses

<b>SOSC 14100:</b> Mind – I (University of Chicago)	2012+, 2013
<b>SOSC 14200:</b> Mind – II (University of Chicago)	2013+, 2014
<b>SOSC 14300:</b> Mind – III (University of Chicago)	2013+
<b>PSYC 20200:</b> Psychological Research Methods (University of Chicago)	2014+
<b>PSYC 20700:</b> Sensation and Perception (University of Chicago)	2014+
<b>PSYC 24860:</b> The Musical Mind (University of Chicago)	2015

+ *Teaching Assistant*

#### Guest Lectures

<b>PSYCHOL 4195F:</b> Special Topics in Cognitive Psychology (University of Western Ontario)	2021, 2022
Lecture Title: “Perceptual learning of absolute pitch in adulthood”	

- PSYCHOL 2115A:** Introduction to Sensation and Perception (University of Western Ontario) 2019  
Lecture Title: "How does sleep influence perceptual processes?"
- COMMSCI 4417A:** Introduction to Hearing Science (University of Western Ontario) 2018  
Lecture Title: "Perceptual Organization of Music"
- PSY 210:** Introduction to Psychological Science (Elmhurst College) 2014  
Lecture Title: "Does this Taylor Swift sound sharp? Exploring pitch memory in the general population"

## MENTORSHIP EXPERIENCE

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### Undergraduate Honors Thesis Advising

- [1] Mark Dunlop (2022-23)  
*Huron University College*  
Title: Effects of age, need for cognition, and cognitive fatigue on statistical learning
- [2] André Grenier (2022-23)  
*Huron University College*  
Title: Assessing the effectiveness of different training paradigms in pitch categorization
- [3] Jordan Thomson (2022-23)  
*Huron University College*  
Title: Effects of an auditory-based 15-minute daily online mindfulness intervention on cognitive processing, socio-affective functioning, and dispositional mindfulness
- [4] Evan Smith (2022-23)  
*Huron University College*  
Title: Tonal working memory and singing ability relate to individual differences in long-term memory for musical pitch
- [5] Huda Ahmed (2021-2022)  
*Huron University College*  
Title: The influence of sound quality on the restorative benefits of nature
- [6] Hannah Cormier (2020-2021)  
*Huron University College*  
Title: The role of attention in inducing cross-modal aftereffects
- [7] Giuliana Brancato (2020-2021)  
*Huron University College*  
Title: Virtual walks through nature and increased well-being
- [8] Amish Gaur (2020-2021)  
*University of Western Ontario*  
Title: The effects of degraded speech on long-term memory in individuals with mild-moderate sensorineural hearing loss
- [9] Mykayla Winspear (2019-2020)  
*University of Western Ontario*  
Title: The influence of talker variability on statistical learning
- [10] Mackenzie Bacon (2018-2019)  
*University of Western Ontario*  
Title: Memory for words and sentences: The effect of acoustical degradation
- [11] Luke Clohisy (2017-2018)  
*University of Chicago*  
Title: Memory for popular music: Evidence for widespread tempo abilities and implicit pitch categories



- [12] Max Bluestone (2015- 2016)  
*University of Chicago*  
 Title: The effects of semantic and temporal congruency on memory for audiovisual clips
- [13] Anders Hogstrom (2012-2013)  
*University of Chicago*  
 Title: The sound of silence: Attention entrainment to isochronous and syncopated beats

### **PhD Advising**

- [1] Joseph Rovetti (2023 - Present)  
*University of Western Ontario*  
 Co-Supervised with Ingrid S. Johnsrude

### **Huron Auditory Perception (HAP) Lab Mentorship**

*Role: Principal Investigator*

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| [1] Huda Khudhair (2021 - 2023) *          | [9] Monika Nguyen (2022 - Present) |
| [2] Katherine Hull (2021 - 2022) *         | [10] Michelle Tu (2021 - 2022)     |
| [3] Ethan Axler (2021 - Present)           | [11] Hebe Wong (2022 - 2023)       |
| [4] Katarina Jovanovich (2023 - Present)   | [12] Natalie Tong (2022 - Present) |
| [5] Austyne (Sum Yee) Hoh (2023 - Present) | [13] Evan Smith (2022 - 2023) *    |
| [6] Noah Bongiovanni (2020 - Present) *    | [14] André Grenier (2022 - 2023)   |
| [7] Omolewa Babalola (2022 - 2023) +       | [15] Irina Petrovic (2020 - 2022)  |
| [8] Jordan Thomson (2022 - 2023) * +       | [16] Amish Gaur (2020 - 2022)      |

\* Co-author on preprint or peer-reviewed journal article

+ Centre for Undergraduate Research Learning (CURL) Fellowship Winner

### **Additional Mentorship Experience**

- [1] **Science Research Program Mentor** 2023  
*Fox Lane High School*  
 Worked one-on-one with a high school student to develop a research project related to absolute pitch and tonal language experience.
- [2] **Practicum Advisor, Master's Program in Computer Science** 2015 - 2016  
*University of Chicago*  
 Advised two master's students in the design and execution of psychophysical projects.

## **PROFESSIONAL SERVICE**

### **Journal Reviewer**

Current Directions in Psychological Science | Cortex | Proceedings of the National Academy of Sciences | Proceedings of the Royal Society B | Journal of Experimental Psychology: General | Neuropsychologia | OpenMind | Cognitive Science | eLife | Psychonomic Bulletin and Review | Attention, Perception, & Psychophysics | Behavior Research Methods | Brain and Language | Social Cognitive and Affective Neuroscience | Journal of Neurolinguistics | PLOS One | Royal Society Open Science | Memory | Scientific Reports | Frontiers in Neuroscience | Heliyon | Music Perception | Trends in Hearing | Acta Psychologica | Journal of Experimental Psychology: Learning, Memory, and Cognition | The Journal of the Acoustical Society of America | Applied Acoustics | Current Psychology | Collabra: Psychology | Brain Sciences | Biological Rhythm Research | Humanities & Social Sciences Communications | STEM Fellowship Journal | Liberated Arts

**Grant Reviewer**

Israel Science Foundation (ISF)

**Editorial Experience**

- [1] Guest Editor: *Frontiers in Psychology*  
Topic: "Active Cognitive Processing for Auditory Perception"
- [2] Editorial Board Member: *STEM Fellowship Journal*

**Leadership Roles**

- [1] Member-At-Large (2021 – Present)  
Executive Board of the Society for Music Perception and Cognition

**PROFESSIONAL ORGANIZATIONS**

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The Society for Music Perception and Cognition | The Psychonomic Society | Society for the Neurobiology of Language | Association for Research in Otolaryngology | The Association for Psychological Science | The Acoustical Society of America | The American Psychological Association | Sigma Xi (Full Member)

**UNIVERSITY SERVICE**

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**Departmental Service**

- [1] Course Coordinator, PSYCHOL 1100E 2022 - Present

**Graduate Student Committee Work**

- [1] External Ph.D. Examiner (Samuel Leak) 2023  
*Cambridge University*
- [2] Comprehensive Examiner (Cailey Salagovic) 2023  
*University of Western Ontario*
- [3] Ph.D. Graduate Advisory Committee Member (Bruno Mesquita) 2022 - Present  
*University of Western Ontario*
- [4] University Examiner, M.Sc. Defense (Sarah Berger) 2022  
*University of Western Ontario*
- [5] M.Sc. Graduate Advisory Committee Member (Bruno Mesquita) 2020 - 2022  
*University of Western Ontario*
- [6] University Examiner, Ph.D. Defense (Avital Sternin) 2021  
*University of Western Ontario*

**General Committee Work**

- [1] Huron University College Research Committee 2021 – 2023
- [2] Huron University College Teaching and Learning Committee 2021 - 2023
- [3] University of Chicago Travel and Research Committee 2010 - 2014

**Speaking Engagements**

- [1] Panelist, Headstart 2023 2023  
*Huron University College*  
Topic: "How to apply to graduate school"
- [2] Scotiabank Scholars Sample Lecture 2022, 2023  
*Huron University College*  
Title: "What makes a leader with heart? Insights from psychology"

- [3] Panelist, Spring Open House 2022  
Huron University College  
Topic: "Where do you find community in a world of technology?"
- [4] Panelist, Centre for Undergraduate Research Learning Spring Conference 2022  
Huron University College  
Topic: "Undergraduate research, mentorship, and collaboration"

#### **Additional University Service**

- [1] **Fulbright Scholarship Interviewer** 2012 - 2018  
University of Chicago  
Annually reviewed between 4-7 applications for Fulbright Scholarships and submit recommendations to the university.
- [2] **PRISM Psychology Graduate Student Preceptor** 2012 - 2014  
University of Chicago  
Planned approximately 7 events each academic year to help students become involved in research and explore post-graduation opportunities.
- [3] **Council on Advanced Studies Workshop Coordinator** 2011 - 2012  
University of Chicago  
Organized biweekly presentations of music perception research given by graduate students, faculty, and external speakers.

#### **SELECTED CONFERENCE TALKS**

- [1] **Van Hedger, S.C.,** Bongiovanni, N., Heald, S.L.M., & Nusbaum, H.C. (2023). Absolute pitch judgments of familiar melodies generalize across timbre and octave. *Midwest Cognitive Science Conference*, Grand Rapids, MI.
- [2] **Van Hedger, S.C.,** & Johnsrude, I.S. (2020). Understanding different forms of degraded speech as an auditory skill. *43rd Annual Midwinter Meeting of the Association for Research in Otolaryngology*, San Jose, CA
- [3] **Van Hedger, S.C.,** Heald, S.L.M., & Nusbaum, H.C. (2019). Robust absolute pitch memory in the general population: Evidence from popular melodies. *Society for Music Perception and Cognition Conference*. New York University, New York, NY
- [4] **Van Hedger, S.C.,** Heald, S.L., Koch, R., Nusbaum, H.C. (2015). Auditory working memory predicts individual differences in absolute pitch learning: Evidence from short- and long-term training. *Society for Music Perception and Cognition Conference*. Vanderbilt University, Nashville, TN
- [5] **Van Hedger, S.C.,** Heald, S.L., Nusbaum, H.C. (2015). Incidental absolute pitch learning in an interactive multi-modal environment. *Acoustical Society of America 170<sup>th</sup> Meeting*. Jacksonville, FL
- [6] **Hedger, S.C.,** Heald, S.L., Nusbaum, H.C. (2013). Absolute pitch may not be so absolute. *Society for Music Perception and Cognition Conference*. Ryerson University, Toronto, ON

- [7] **Hedger, S.C.**, Klos, S., Nusbaum, H.C. (2013). Individual differences in the short- and long-term training of musical pitch. *Midwest Music Cognition Symposium*. The Ohio State University, Columbus, OH
- [8] **Hedger, S.C.**, Hoeckner, B., Nusbaum, H.C. (2011). Music Can Convey Movement like Prosody in Speech. *Society for Music Perception and Cognition Conference*. Eastman School of Music, Rochester, NY
- [9] **Hedger, S.C.**, Heald, S.L., DeSouza, J., Hoeckner, B., Nusbaum, H.C. (2011). The Role of Vibrotactile Input in Musical Performance. *Franke Institute for the Humanities*. The University of Chicago, Chicago, IL
- [10] **Hedger, S.C.**, Hoeckner, B., Nusbaum, H.C. (2011). The Sound of Motion in Music. *Midwest Cognitive Science Meeting*. Michigan State University, East Lansing, MI

## SELECTED POSTER PRESENTATIONS

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- [1] **Van Hedger, S.C.**, Halpern, A.R., Vollweiler, D.J., Smith, E.\*, & Pfordresher, P.Q. (2023). Is *Hey Jude* in the right key? Cognitive and sensorimotor components of absolute pitch memory. *Annual Meeting of the Psychonomic Society*, San Francisco, CA.
- [2] Bongiovanni, N.\*, Heald, S.L.M., Nusbaum, H.C., & **Van Hedger, S.C.** (2023). Generalizing across tonal context, timbre, and octave in rapid absolute pitch training. *Midwest Cognitive Science Conference*, Grand Rapids, MI.
- [3] **Van Hedger, S.C.**, & Batterink, L.J. (2022). Talker variability influences the statistical learning of speech. *Annual Meeting of the Psychonomic Society*, Boston, MA
- [4] **Van Hedger, S.C.**, & Khudhair, H.\* (2021). Does tuning influence aesthetic judgments of music? Investigating the generalizability of absolute intonation ability. *Annual Meeting of the Psychonomic Society*, (virtual)
- [5] Cormier, H.\*, Tsang, C.D., & **Van Hedger, S.C.**, (2021). Musical scales can elicit visual motion aftereffects outside of the scope of attention. *Auditory Perception, Cognition, and Action Meeting*. (virtual)
- [6] **Van Hedger, S.C.**, Johnsrude, I.S., & Batterink, L.J. (2020). Prior real-world experience influences non-linguistic statistical learning. *Annual Meeting of the Psychonomic Society*, Austin, TX (virtual)
- [7] **Van Hedger, S.C.**, Heald, S.L.M., Nusbaum, H.C., Batterink, L.J., Davis, M.H., & Johnsrude, I.S. (2019). Learning different forms of degraded speech as a cognitive skill. *Annual Meeting of the Psychonomic Society*, Montreal, QC
- [8] **Van Hedger, S.C.**, Heald, S.L.M., & Nusbaum, H.C. (2019). Neural bases of note normalization in absolute pitch. *13<sup>th</sup> Annual Canadian Neuroscience Meeting*, Toronto, ON

- [9] **Van Hedger, S.C., & Nusbaum, H.C.** (2019). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. *42<sup>nd</sup> Annual Midwinter Meeting of the Association for Research in Otolaryngology*, Baltimore, MD
- [10] **Van Hedger, S.C., & Nusbaum, H.C.** (2018). Individual differences in absolute pitch performance: Contributions of working memory, musical expertise, and tonal language background. *Annual Meeting of the Psychonomic Society*, New Orleans, LA
- [11] **Van Hedger, S.C., Heald, S.L.M., Huang, A., Rutstein, B., & Nusbaum, H.C.** (2016). Telling in-tune from out-of-tune: Widespread evidence for implicit absolute intonation. *Annual Meeting of the Psychonomic Society*, Boston, MA
- [12] **Van Hedger, S.C., Heald, S.L., Wu, S., & Nusbaum, H.C.** (2015). Judging the absolute pitch of novel recordings of familiar songs. *Annual Meeting of the Psychonomic Society*, Chicago, IL
- [13] **Van Hedger, S.C., Heald, S.L., Nusbaum, H.C.** (2015). The effects of acoustic variability on absolute pitch categorization: Evidence for contextual tuning. *Acoustical Society of America 170<sup>th</sup> Meeting*. Jacksonville, FL
- [14] **Hedger, S.C., Nusbaum, H.C., Lescop, O., Wallisch, P., Hoeckner, B.** (2013). Music can elicit a visual motion aftereffect: Evidence from behavior and fMRI. *Auditory Cognitive Neuroscience Society Meeting*, Tucson, AZ
- [15] **Hedger, S.C., Heald, S.L., Nusbaum, H.C.** (2012). Absolute pitch may not be so absolute. *Annual Meeting of the Psychonomic Society*, Minneapolis, MN
- [16] **Hedger, S.C., Nusbaum, H.C., Lescop, O., Wallisch, P., Hoeckner, B.** (2012). Music can elicit a visual motion aftereffect. *Association for Psychological Science Convention*, Chicago, IL
- [17] **Hedger, S.C., Palmer, C., Hogstrom, A., Nusbaum, H.C.** (2012). The effects of sleep-dependent consolidation on motoric and abstract learning in music. *Midwest Cognitive Science Meeting*. Indiana University, Bloomington, IN

\* Trainee

## WORKSHOPS

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- [1] **BrainsCAN Computational Core Methods Lunch** (*University of Western Ontario*)  
Title: "An introduction to running web-based experiments using PsychoPy, jsPsych, and Pavlovia"  
Co-Presenter: J. Paul Minda
- [2] **Nissl Lab Group** (*University of Western Ontario*)  
Title: "Best practices in conducting auditory experiments over the web"

## INVITED TALKS

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- [1] **Van Hedger, S.C.** (2023). Absolute pitch memory in adulthood. *Charity Chords Melodic Minds Speaker Series*. University of Western Ontario. London, ON
- [2] **Van Hedger, S.C.** (2021). Memory for absolute pitch in the general population. *Eastman/Rochester/Cornell/Buffalo Music Cognition Symposium*. Eastman School of Music. Rochester, NY
- [3] **Van Hedger, S.C.** (2020). Perceptual understanding in a variable world: Insights from music and speech. Huron University College. London, ON
- [4] **Van Hedger, S.C.** (2020). What can pop songs tell us about representations of musical pitch? *Graduate Student Colloquium*. University of Western Ontario. London, ON
- [5] **Van Hedger, S.C.** (2019). Absolute pitch can be trained in some high-auditory working memory adults. *The 5<sup>th</sup> Learning and Plasticity (LaP) Meeting*. Äkäslompola, Finland
- [6] **Van Hedger, S.C.** (2016). Pitch memory in adulthood: Individual differences, generalizations, and abstractions. *Musical Learning across the Lifespan Workshop*. University of Western Ontario. London, ON
- [7] **Van Hedger, S.C.** (2015). Telling sharp from flat: Pitch memory in the general population. DePauw University. Greencastle, IN
- [8] **Van Hedger, S.C.** (2015). Developing a framework for musical understanding. The University of Chicago. Chicago, IL